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Results of phase retrieval using a sparse, segmented telescope simulator are presented. The wavefront is estimated using our modified Gerschberg-Saxton routine. An optimal control is calculated and the wavefront is then corrected using the segment actuators and a deformable mirror. Not only is relative piston between the segments measured, but the interior of the segments as well. This differentiates this algorithm from those used on Keck and other testbeds.